

First description of the male *Arhytinus irideus* Jedlicka, 1936 (Coleoptera: Carabidae: Platynini), a rare Ground Beetle in Mindanao, the Philippines

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The first male and second known specimen of *Arhytinus irideus* found in Mindanao. For the first time precise distribution is reported, and its genitalia is illustrated. The similarities between *A. irideus* and its closely related species *A. nitidipennis* Baehr, 2010 are further discussed.

Key words: *Arhytinus*, Carabidae, Coleoptera, male description, Philippines.

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INTRODUCTION

The platynine genus *Arhytinus* Bates, 1889 at present comprises 50 species (Anichtchenko 2021) known from Philippines and regions of Indonesia and Melanesia, with only few species from mainland of Southeast Asia (Baehr, 2010, 2012, 2014a-b, 2016, 2018; Baehr & Schmidt 2010). During a joint expedition organized by Universities of Daugavpils (Latvia) and of Mindanao (Philippines), an interesting specimen was collected by author. After study, it was identified as *Arhytinus irideus* Jedlička, 1936. This species was described by Jedlička (1936) based on single female from Philippines, without exact locality. Up to now, species was known by holotype only. In the present paper, I record *A. irideus* from Mindanao for the first time with description of male genitalia.

MATERIAL AND METHODS

The specimens preserved in Daugavpils University Beetle Collection (DUBC), Latvia.

The habitus photographs were obtained using Canon EOS 6D with Canon MP-E 65 mm macro lens with Helicon Focus auto montage and subsequently edited with Photoshop.

High-resolution images, including type specimens and additional material, are available at <http://www.carabidae.pro>.

RESULTS

Specimen, collected in Philippines, Mindanao, Davao prov., Mt. Talomo (mt. Apo) 800-1000m,



Fig. 1. Habitus of *Arhytinus irideus* Jedlicka, 1936. Scale bar = 5mm.

Catigan, 7°01'21.0N 125°22'30.5E 29.4-1.5.2019, Anichtchenko A. leg. (DUBC), perfectly correspond in overall appearance with diagnosis and detailed re-description given by M. Baehr (2010: 14). Body length 8 mm.

Description of male genitalia. Genital ring (Fig. 1) large, rather wide, laterally convex, almost symmetrical, apex moderately wide, regularly rounded. Aedeagus (Fig. 2a) short and wide, lower surface slightly regularly concave from base to apex. Apex wide and oblique, lower tooth

large and pointed, upper tooth hooked. Internal sac with four large spines. Parameres (Figs 2b-c), left large and triangular, with widely rounded apices; right paramere relatively short and obovate.

Remarks. This species is closely related to *Arhytinus nitidipennis* Baehr, 2010 known from Brunei (Borneo), but distinguish from it by the rounded basal angles and the sparsely punctate base of the pronotum. In addition, male genitalia of *A. irideus* differ from that of *A. nitidipennis* in

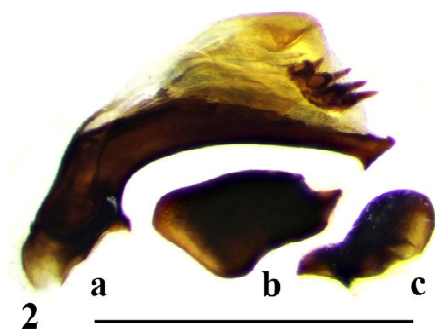


Fig. 2. Male genitalia of *Arhytinus irideus* Jedlicka, 1936: a – aedeagus, b – left paramere, c – right paramere. Scale bar = 1 mm.

the following points: internal sac with four spines, i.e. three spines in *A. nitidipennis*; right paramere short, with wide and rounded apex, and left paramere with obtuse apex, i.e. in *A. nitidipennis* right paramere rather elongate and left paramere with pointed apex.

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